United States Patent [19] Tieman et al. [54] TACTILE RELIEF DISPLAY DEVICE AND METHOD FOR MANUFACTURE IT [75] Inventors: Frans J. Tieman; Kees Zeehuisen, both of Rockanje, Netherlands [73] Assignee: F. J. Tieman B.V., Rockanje, Netherlands [21] Appl. No.: 14,473 [22] Filed: Feb. 13, 1987 [30] Foreign Application Priority Data Feb. 24, 1986 [NL] Netherlands 8600453 Int. Cl.⁴ G09B 21/00 U.S. Cl. 434/114; 340/407 Field of Search 434/114, 113, 115;

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4.044.350	8/1977	Tretiakoff et al	340/407
		Tetzlaff	
		Becker	

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57] ABSTRACT

A braille cell having piezoelectric reeds (8-11) attached at one end (28), supported in their middle region (at 29) and cooperating with tactile members (12-15) at their other end. The attachment of the reeds at their one end (28) being by soldering a protruding part of the reeds to a conducting web (32) parallel to the flexion plane of the reeds. The other ends of the reeds are then located in the desired position with respect to the tactile members.

10 Claims, 3 Drawing Sheets

